

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101661,378

Source: _____

Date Processed by STIC: _____

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005

TIME: 14:34:41

Input Set : N:\CrF3\RULE60\10661378.raw.txt
 Output Set: N:\CRF4\02162005\J661378.raw

1 <110> APPLICANT: Dubin, Adrienne E
 2 Erlander, Mark G
 3 Huvar, Arne
 4 Huvar, Rene
 5 Buehler, Lukas K
 6 <120> TITLE OF INVENTION: DNA ENCODING A HUMAN SUBUNIT 5-HT3-C OF THE 5-HT3 SEROTONIN
 7 RECEPTOR
 8 <130> FILE REFERENCE: ORT-1039
 9 <140> CURRENT APPLICATION NUMBER: US/10/661,378
 10 <141> CURRENT FILING DATE: 2003-09-12
 11 <150> PRIOR APPLICATION NUMBER: US/09/955,524
 12 <151> PRIOR FILING DATE: 2001-09-12
 13 <160> NUMBER OF SEQ ID NOS: 12
 14 <170> SOFTWARE: PatentIn Ver. 2.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 27
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Artificial Sequence
 19 <220> FEATURE:
 20 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
 21 <400> SEQUENCE: 1
 22 gtagaagctg agggcatcaa tggcaac 27
 23 <210> SEQ ID NO: 2
 24 <211> LENGTH: 27
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR Primer
 29 <400> SEQUENCE: 2
 30 ctggtcaccc tcattggctt atcatac 27
 31 <210> SEQ ID NO: 3
 32 <211> LENGTH: 25
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Description of Artificial Sequence: Nested PCR
 37 primer
 38 <400> SEQUENCE: 3
 39 actgacagtg aggcagagga gggca 25
 40 <210> SEQ ID NO: 4
 41 <211> LENGTH: 25
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005

TIME: 14:34:41

Input Set : N:\Crf3\RULE60\10661378.raw.txt
 Output Set: N:\CRF4\02162005\J661378.raw

```

48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence:
50   oligonucleotide
51 <400> SEQUENCE: 4
52   cctggtaat ccccagagaa gagtc                                25
54 <210> SEQ ID NO: 5
55 <211> LENGTH: 1745
56 <212> TYPE: DNA
57 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 5
59   tggtaatcc ccagagaaga gtcagaaaag aagaatggaa ggagggtggc ctgcaaggca 60
60   gagtgccctc ctctgcctca ctgtcagtct tctgcttcaa ggaagaggcg acgctttac 120
61   catcaattgc tcaggcttg accagcatgg ggttgcaccc gctgtcttcc aagcagtgtt 180
62   tgacagaaaag gcctccgtc cattcaccaa cttacagcatc cttacccgtg tcaacatctc 240
63   cttaccctg tctgcccattcc tggagtgga tgcacagctc cagctgctga catcattcct 300
64   gtggatggat ttggatggg acaatccctt cattaattgg aacccaaaag agtgtgttgg 360
65   catcaataaa ctcacagat tagctgaaaa cctgtggctc ccagacatct tcacgttgg 420
66   atccatggat gtggatcaga cgcctccgg tctcactgcc tatatcagca gtgaaggctg 480
67   aattaaatgt gataaggccaa tgagggtgac cagcatctgt aaactggaca tcttctactt 540
68   cccttttgc acacagaact gtacccctac cttcaggcttcttccatc cagtggacag 600
69   catgtgctg ggcatggaca aggaggtgtg ggagatcaca gacacgtctc gcaaagtcat 660
70   ccaaaacccag ggggagttggg agctcttggg catcaacaag gcacacccaa agatgtccat 720
71   gggcaacaac ctatatgacc agatcatgtt ttatgtggcc atcaggcgca ggcacaccc 780
72   ctacatcata aacctgttgg tgccctgtt ctttctgggtt gccattgtat ccctcagctt 840
73   ctacactgcca gcagagagcg agaatcgtgc cccattcaag ataacacttc tgctggctt 900
74   caacgttcc ctgctcatga tgaatgtactt gtccttgccttccatc agtggcacc 960
75   tgtctacttc gcccctgttcc tggccctgtat ggtggctcgtc ctgctggaga ccgttccat 1020
76   tacctacctg ctgacacgttgg ccaccaccca gccccccaccc atgccttaggt ggcttccatc 1080
77   cctgtgctc cactgcacca gcccaggagatgtgtcccttccatc actgcgcaccc agaaggaaa 1140
78   taagggcctg ggtctcaccc tcacccaccc gctggccca aaggagccgg gggaggtagc 1200
79   agggaaagaag ctgggaccca gagagaccga gcccacatggg ggctcgtatc ggacaaagac 1260
80   ccagctaattt gagctgtggg tgcagttcgtt ccacgcgtatc gacacccttc tcttccgcct 1320
81   ctacactgctc ttcatggctt cctccatctt tactgttcatc gtccctgttgc acacccatc 1380
82   agacatcccc cctctctggc aaacaacacgc ttggaggtttgc tggctgttcc gggccaccc 1440
83   gactcatttt cctaattttt gcccatttttccatc cccagtgact accatgtccc ttttctaaattt 1500
84   ccaaagaatc caacgcacca ctgcacacca ggttgcggac agccctggac gatcccccga 1560
85   ccgctgctca ggggtggcat tcctgctcac cctcaggatcc cctgaggatc cacctaaactc 1620
86   ctcactccctt gatcaatggaa agtcaggatc agtggaggatcttccatc gatccacccaa 1680
87   ataaacaact tttcaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
88   aaaaaa                                              1745
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 1344
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
94 <400> SEQUENCE: 6
95   atggaaggag ggtggcctgc aaggcagagt gcccctcttgc tgcactgtt cagttcttgc 60
96   cttcaaggaa gaggcgacgc ttttaccatc aattgtctatc gctttgcacca gcatgggggtt 120
97   gaccctgctg tcttccaaatc agtgtttgcac agaaaggcccttccatc caccaactac 180
98   agcatcccta cccgtgttcaatccatc accctgttgc ccatcctggg agtggatgca 240

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005

TIME: 14:34:41

Input Set : N:\Crf3\RULE60\10661378.raw.txt
 Output Set: N:\CRF4\02162005\J661378.raw

```

99  cagctccagc tgctgacatc attcctgtgg atggattgg tatggacaa tccttcatt 300
100 aattggAACc caaaagagtg tggatggcattc aataaactca cagtattagc tgaaaacctg 360
101 tggctccag acatcttcatt cgtggaaatcc atggatgtgg atcagacgcc ttccggctc 420
102 actgcctata tcagcagtga aggtcgaatt aagtatgata agccaatgag ggtgaccagc 480
103 atctgttaacc tggacatctt ctacttccct tttgaccaac agaactgtac cttcacctc 540
104 agttcttcc tctacacagt ggacagcatg ctgctggca tggacaaggaa ggtgtggag 600
105 atcacagaca cgtctcgaa agtcatccaa acccaggggg agtggagct cttgggcattc 660
106 aacaaggcca ccccaaagat gtcacatgggc aacaacctat atgaccagat catgtttat 720
107 gtggccatca ggcgcaggcc aagcctctac atcataaaacc tgctgggtgcc cagtagctt 780
108 ctgggtgcca ttgatggccct cagcttctac ctgcccagcag agagcggaaa tcgtgcccc 840
109 ttcaagataa cacttcgtg ggctacaac gtcttcctgc tcatgtgaa tgacttgctc 900
110 cctgccatgt gcacccccc catcagtgtc tacttcgccc tggcctgtc cctgatgggt 960
111 gtcagcctgc tggagaccgt cttcattacc tacctgctgc acgtggccac caccacgccc 1020
112 ccacccatgc ctaggtggct tcactccctg ctgctccact gcaccagccc agggagatgc 1080
113 tgtcccactg cgcggccagaa gggaaataag ggcctgggtc tcacccctcac ccacccgtc 1140
114 ggcccaaagg agccgggggaa gttagcaggaa aagaagctgg gacccagaga gaccgagcca 1200
115 gatgggggct caggatggac aaagacccag ctaatggagc tgggggtgca gttcagccac 1260
116 gcgatggaca ccctgctctt ccgcctctac ctgctttca tggcctccctc catccttact 1320
117 gtcatgttcc tctggaaacac ctag 1344

119 <210> SEQ ID NO: 7
120 <211> LENGTH: 51
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: cloning
125 oligonucleotide for mammalian vector
126 <400> SEQUENCE: 7
127 aacgttgaat tcgccaccat gttgtcaagt gtaatggctc ccctgtggc c 51
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 40
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: cloning
135 oligonucleotide for mammalian vector
136 <400> SEQUENCE: 8
137 aacgttaagc ttcttaagt gccagcacaa ttacttgaag 40
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 447
141 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
143 <400> SEQUENCE: 9
144 Met Glu Gly Gly Trp Pro Ala Arg Gln Ser Ala Leu Leu Cys Leu Thr
145 1 5 10 15
146 Val Ser Leu Leu Leu Gln Gly Arg Gly Asp Ala Phe Thr Ile Asn Cys
147 20 25 30
148 Ser Gly Phe Asp Gln His Gly Val Asp Pro Ala Val Phe Gln Ala Val
149 35 40 45
150 Phe Asp Arg Lys Ala Phe Arg Pro Phe Thr Asn Tyr Ser Ile Pro Thr

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005
TIME: 14:34:41

Input Set : N:\Crf3\RULE60\10661378.raw.txt
Output Set: N:\CRF4\02162005\J661378.raw

151	50	55	60
152	Arg Val Asn Ile Ser Phe Thr Leu Ser Ala Ile Leu Gly Val Asp Ala		
153	65	70	75
154	Gln Leu Gln Leu Leu Thr Ser Phe Leu Trp Met Asp Leu Val Trp Asp		80
155	85	90	95
156	Asn Pro Phe Ile Asn Trp Asn Pro Lys Glu Cys Val Gly Ile Asn Lys		
157	100	105	110
158	Leu Thr Val Leu Ala Glu Asn Leu Trp Leu Pro Asp Ile Phe Ile Val		
159	115	120	125
160	Glu Ser Met Asp Val Asp Gln Thr Pro Ser Gly Leu Thr Ala Tyr Ile		
161	130	135	140
162	Ser Ser Glu Gly Arg Ile Lys Tyr Asp Lys Pro Met Arg Val Thr Ser		
163	145	150	155
164	Ile Cys Asn Leu Asp Ile Phe Tyr Phe Pro Asp Gln Gln Asn Cys		160
165	165	170	175
166	Thr Phe Thr Phe Ser Ser Phe Leu Tyr Thr Val Asp Ser Met Leu Leu		
167	180	185	190
168	Gly Met Asp Lys Glu Val Trp Glu Ile Thr Asp Thr Ser Arg Lys Val		
169	195	200	205
170	Ile Gln Thr Gln Gly Glu Trp Glu Leu Leu Gly Ile Asn Lys Ala Thr		
171	210	215	220
172	Pro Lys Met Ser Met Gly Asn Asn Leu Tyr Asp Gln Ile Met Phe Tyr		
173	225	230	235
174	Val Ala Ile Arg Arg Pro Ser Leu Tyr Ile Ile Asn Leu Leu Val		
175	245	250	255
176	Pro Ser Ser Phe Leu Val Ala Ile Asp Ala Leu Ser Phe Tyr Leu Pro		
177	260	265	270
178	Ala Glu Ser Glu Asn Arg Ala Pro Phe Lys Ile Thr Leu Leu Leu Gly		
179	275	280	285
180	Tyr Asn Val Phe Leu Leu Met Met Asn Asp Leu Leu Pro Ala Ser Gly		
181	290	295	300
182	Thr Pro Leu Ile Ser Val Tyr Phe Ala Leu Cys Leu Ser Leu Met Val		
183	305	310	315
184	Val Ser Leu Leu Glu Thr Val Phe Ile Thr Tyr Leu Leu His Val Ala		320
185	325	330	335
186	Thr Thr Gln Pro Pro Pro Met Pro Arg Trp Leu His Ser Leu Leu Leu		
187	340	345	350
188	His Cys Thr Ser Pro Gly Arg Cys Cys Pro Thr Ala Pro Gln Lys Gly		
189	355	360	365
190	Asn Lys Gly Leu Gly Leu Thr Leu Thr His Leu Pro Gly Pro Lys Glu		
191	370	375	380
192	Pro Gly Glu Leu Ala Gly Lys Lys Leu Gly Pro Arg Glu Thr Glu Pro		
193	385	390	395
194	Asp Gly Gly Ser Gly Trp Thr Lys Thr Gln Leu Met Glu Leu Trp Val		400
195	405	410	415
196	Gln Phe Ser His Ala Met Asp Thr Leu Leu Phe Arg Leu Tyr Leu Leu		
197	420	425	430
198	Phe Met Ala Ser Ser Ile Leu Thr Val Ile Val Leu Trp Asn Thr		
199	435	440	445

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005

TIME: 14:34:41

Input Set : N:\Crf3\RULE60\10661378.raw.txt
Output Set: N:\CRF4\02162005\J661378.raw

201 <210> SEQ ID NO: 10
202 <211> LENGTH: 20
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR
207 distribution oligonucleotide
208 <400> SEQUENCE: 10
209 cgttggaaatcc atggatgtgg 20
211 <210> SEQ ID NO: 11
212 <211> LENGTH: 20
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR
217 distribution oligonucleotide
218 <400> SEQUENCE: 11
219 tggcaggagcaatcattc 20
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 30
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR
227 distribution oligonucleotide
228 <400> SEQUENCE: 12
229 gtgggagatc acagacacgt ctgcgaaagt 30

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/16/2005
PATENT APPLICATION: US/10/661,378 TIME: 14:34:42

Input Set : N:\Crf3\RULE60\10661378.raw.txt
Output Set: N:\CRF4\02162005\J661378.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/661,378

DATE: 02/16/2005

TIME: 14:34:42

Input Set : N:\Crf3\RULE60\10661378.raw.txt

Output Set: N:\CRF4\02162005\J661378.raw